

Self-sustainability



Self-sustainability

0. Impossible sustainability
 1. Principle of slowness
 2. Principle of subsidiarity
 3. Principle of third-village
- Principle of urbe

Self-sustainability

0. Impossible sustainability

The Brundtland Report, 1987 *Our Common Future*

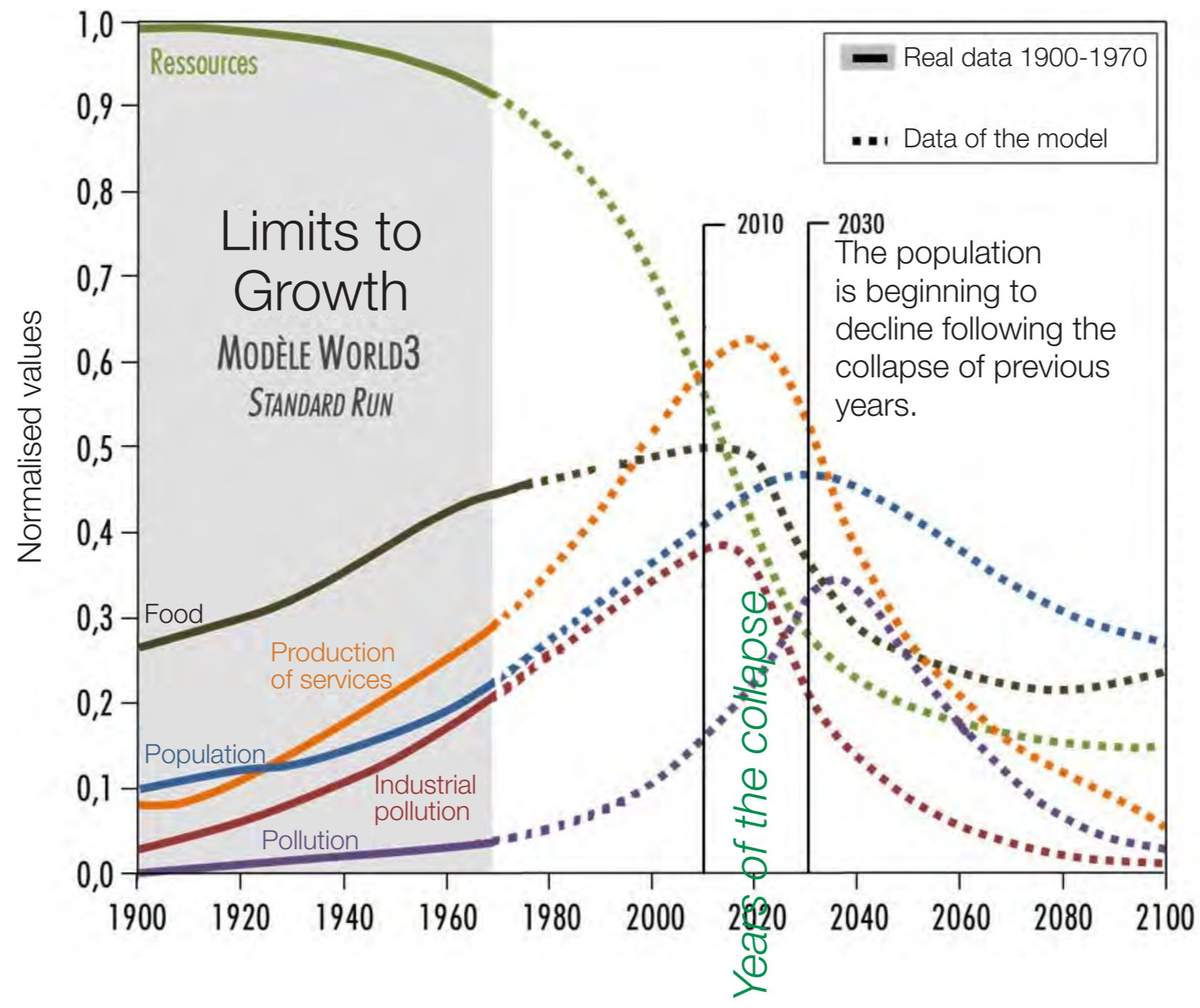
World Commission on Environment and Development, United Nations

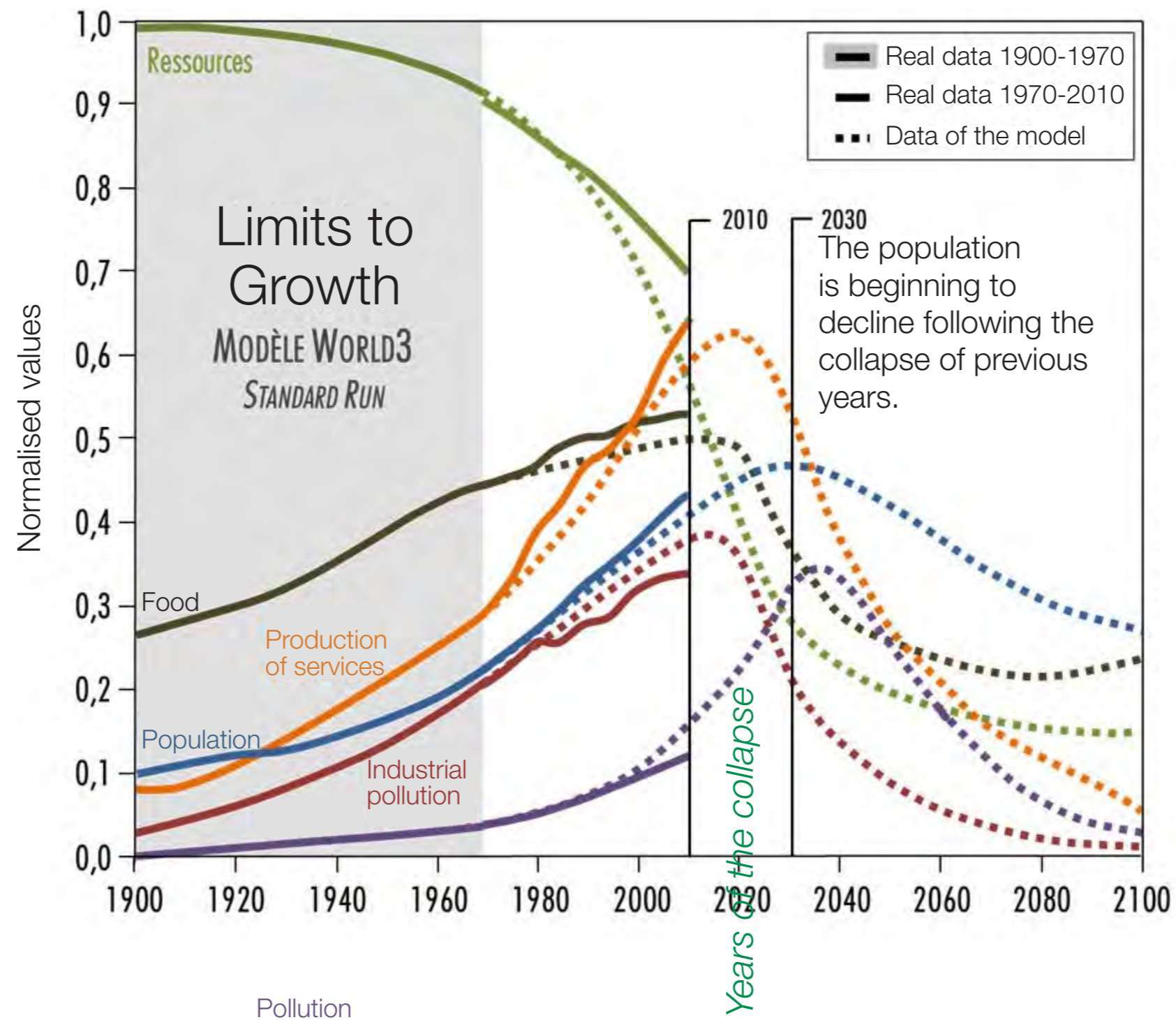
The Meadows Report, 1972 *The Limits to Growth*

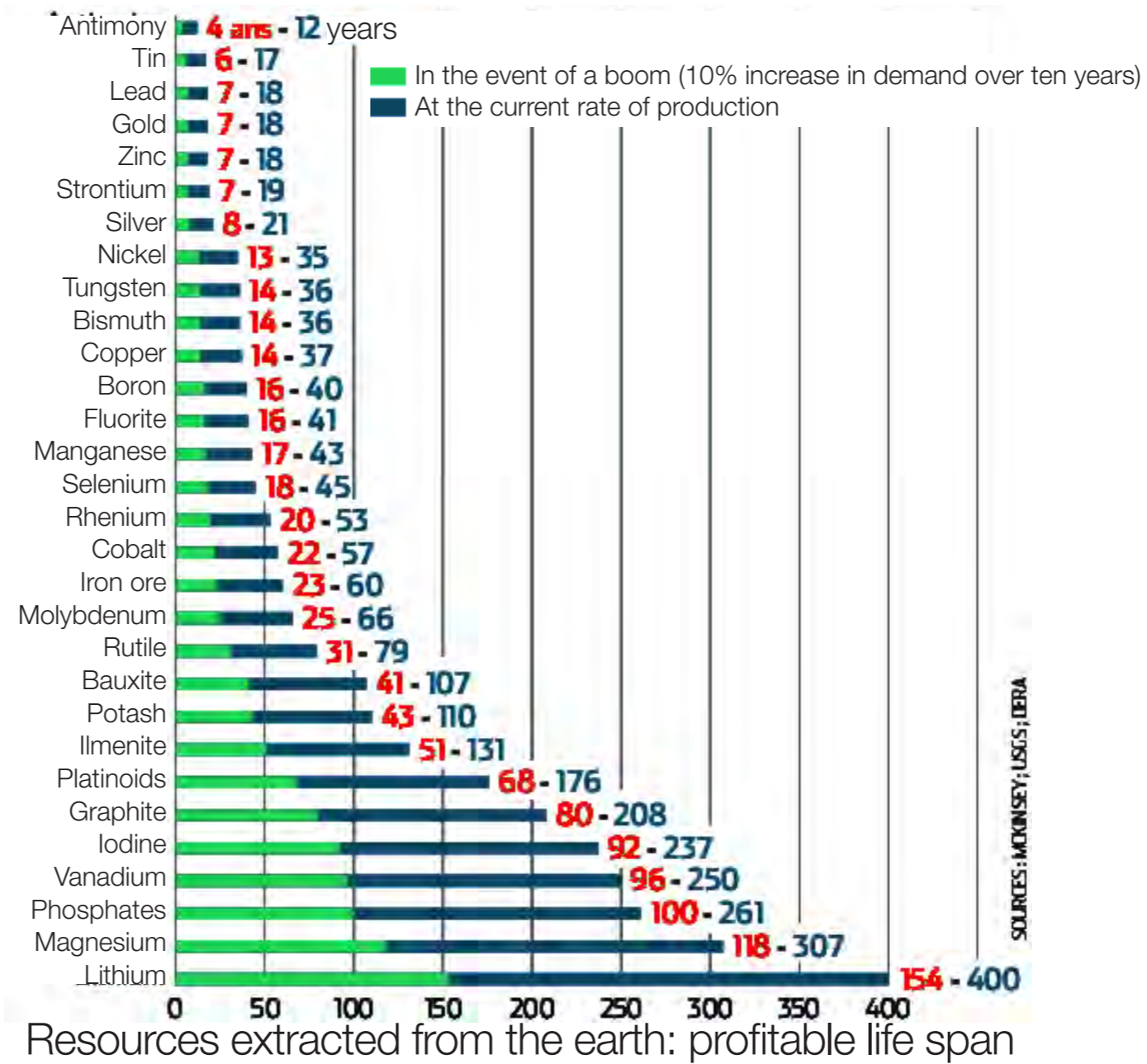
Organisation for Economic Co-operation and Development (OECD)

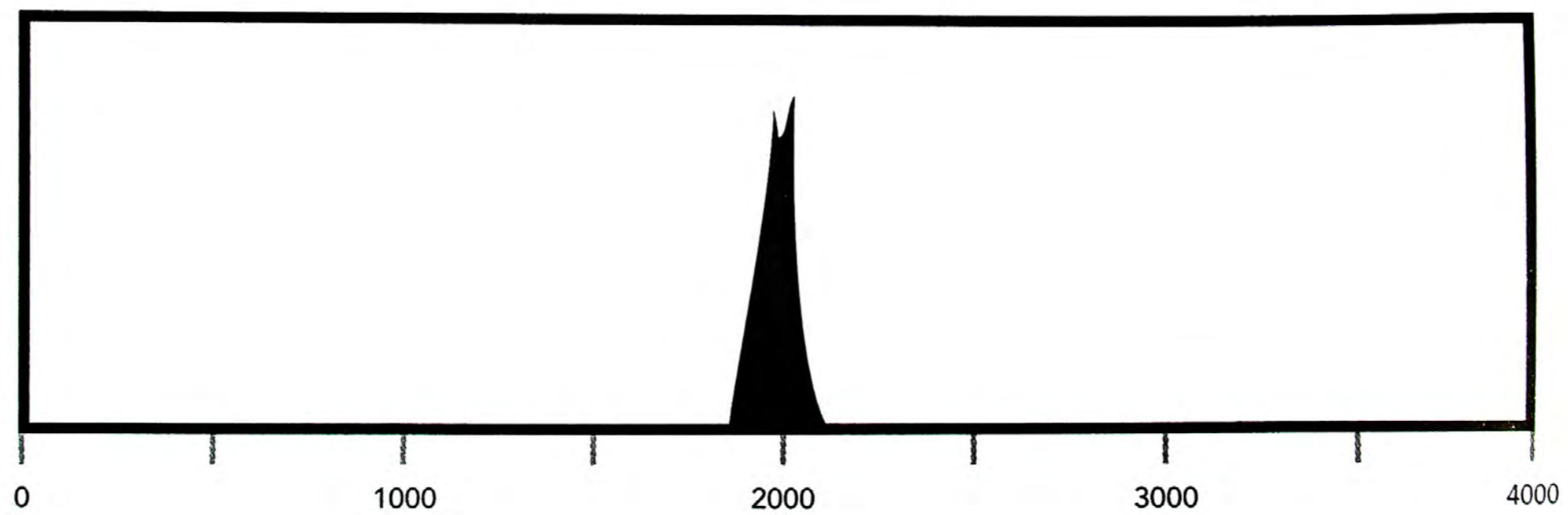
World Scientists' Warning to Humanity: A Second Notice

15,364 scientist signatories from 184 countries, 2017 [1992]

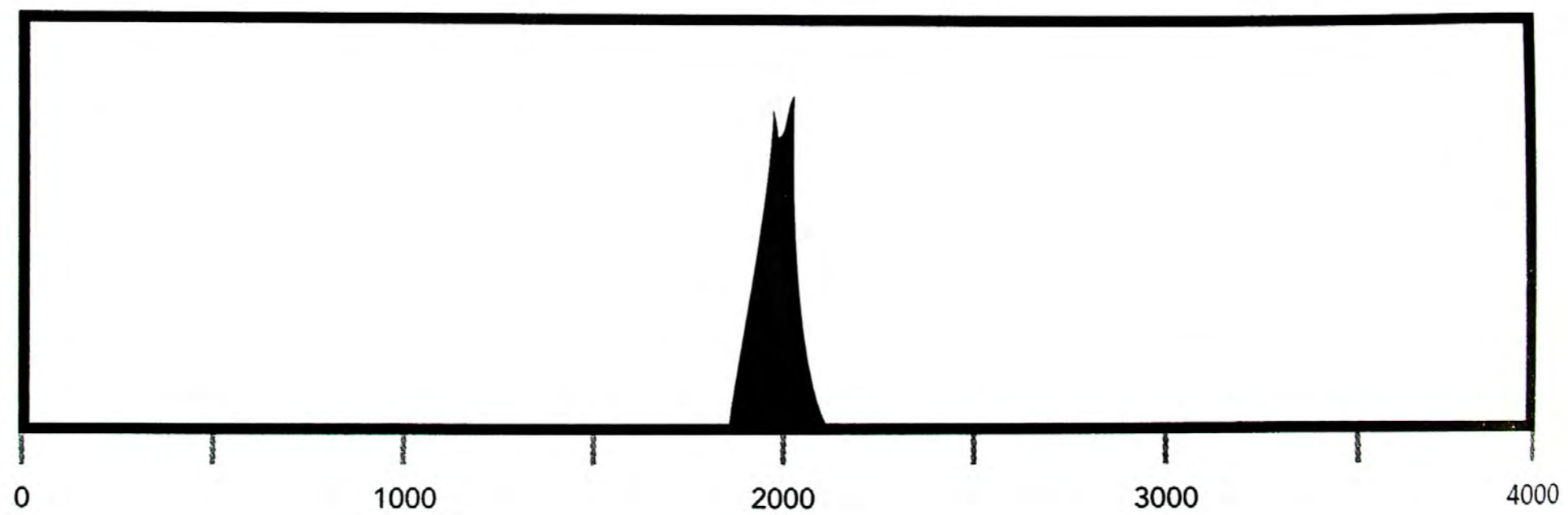






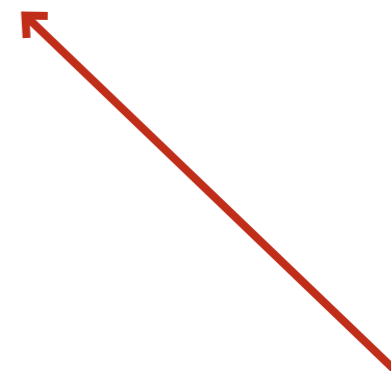


Peak oil



Peak oil

local resilience



Self-sustainability

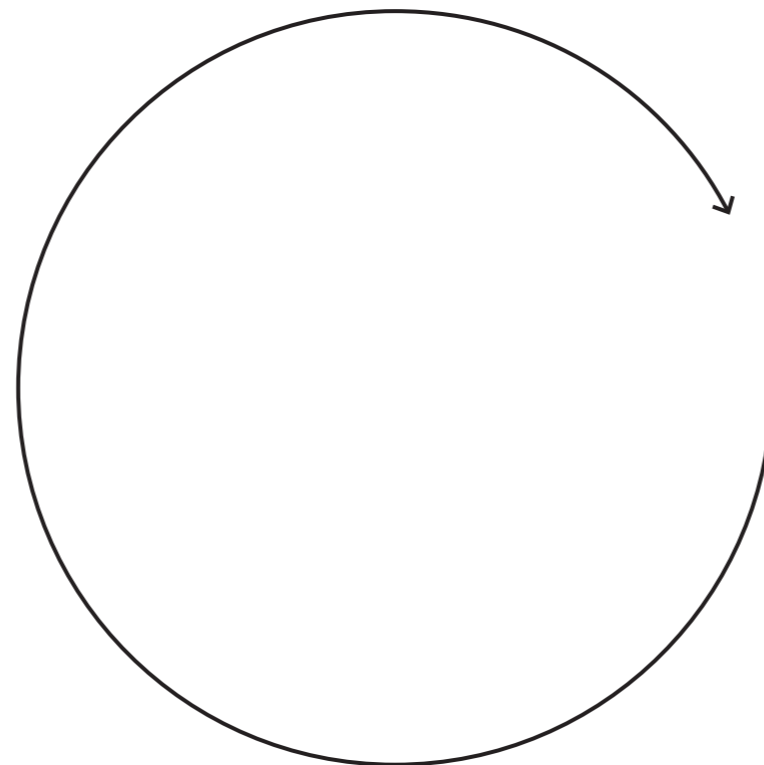
0. Impossible sustainability
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1. Principle of slowness

Paradigm of the Modernity:
linear time, infinite



Paradigm of the Sustainability:
revolving time, cyclical



Time of one
generation



Slow down
time

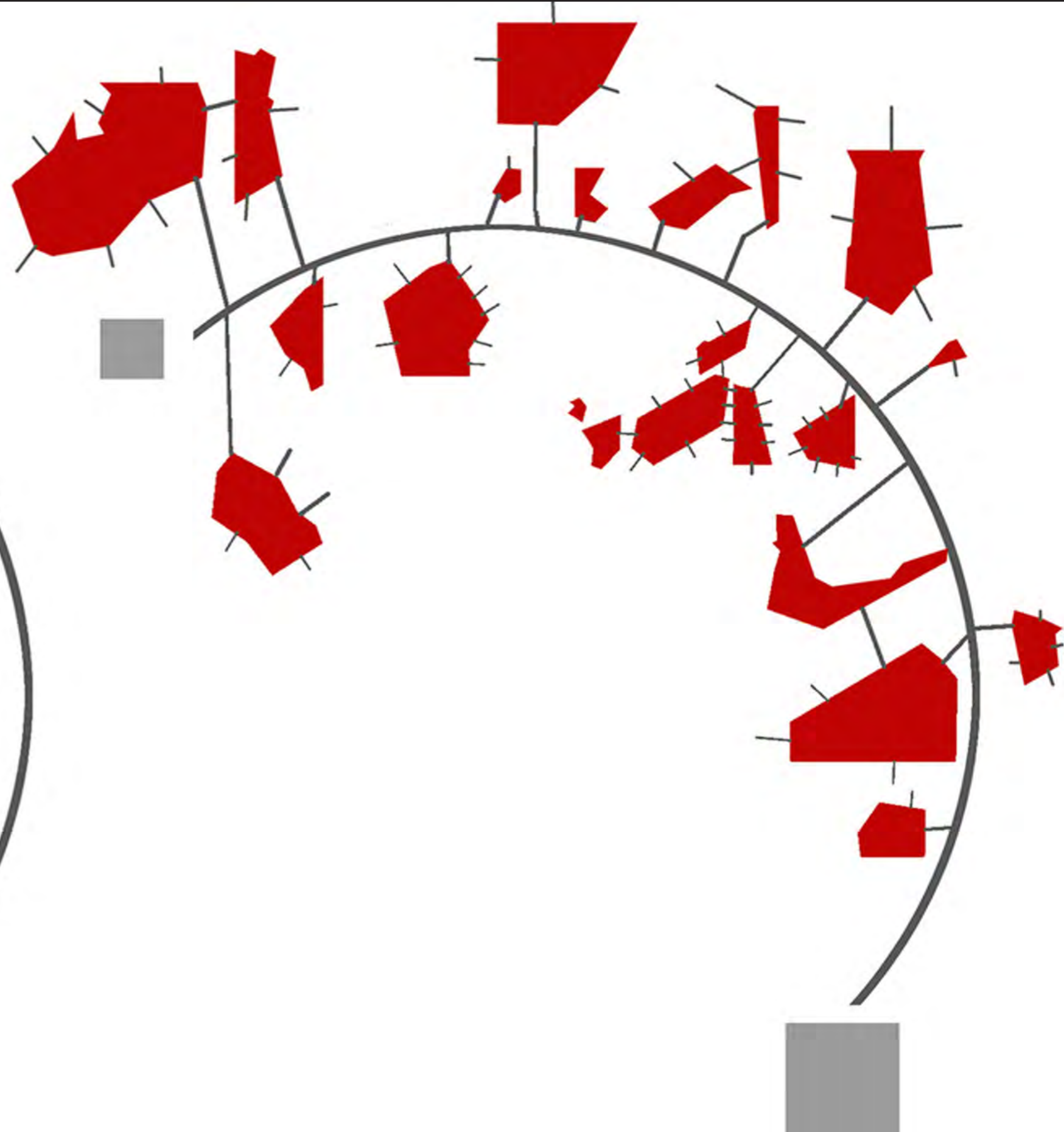


Square of Rochetaillée-sur-Saône (Rhône):
repurposed slabs + permeable soil.

Anticipated time



Densified
time

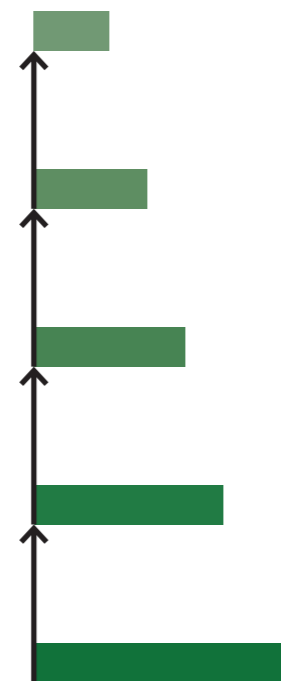


2. Principle of subsidiarity

For optimal efficiency,

the responsibility for an action belongs to the entity closest to the persons concerned.

If this entity is found to be incompetent or unable to make a decision, it is transmitted to the upper level, and so on.





Nantes, cours des Cinquante-Otages.

1



2



3



Tōkyō:
Shibuya-ku,
Karajuku,
Harajuku station.

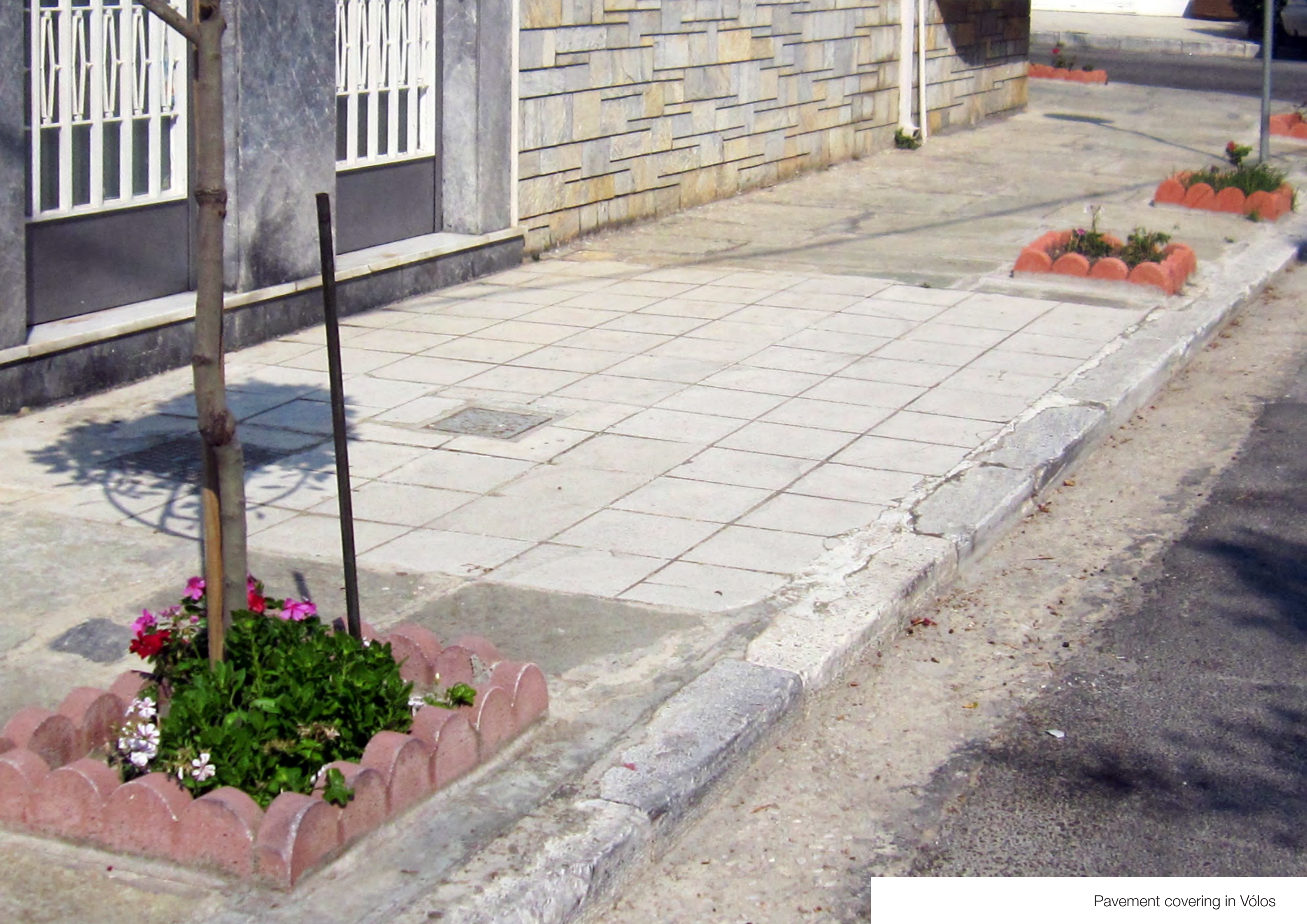


Kyôto, Daitoku-ji temple, surrounding wall.



**Baked
clay**

**Raw
clay**



Pavement covering in Vólos



Pavement covering in Yogyakarta (Indonesia).



Pedestrian first



3. Principle of third-village

“Third landscape”

Gilles CLÉMENT, *Manifeste du tiers paysage*,
Sujet/objet, coll. « L'Autre Fable », Paris, 2004.



Île Derborence, Matisse Park, Lille (Gilles Clément, 1990).



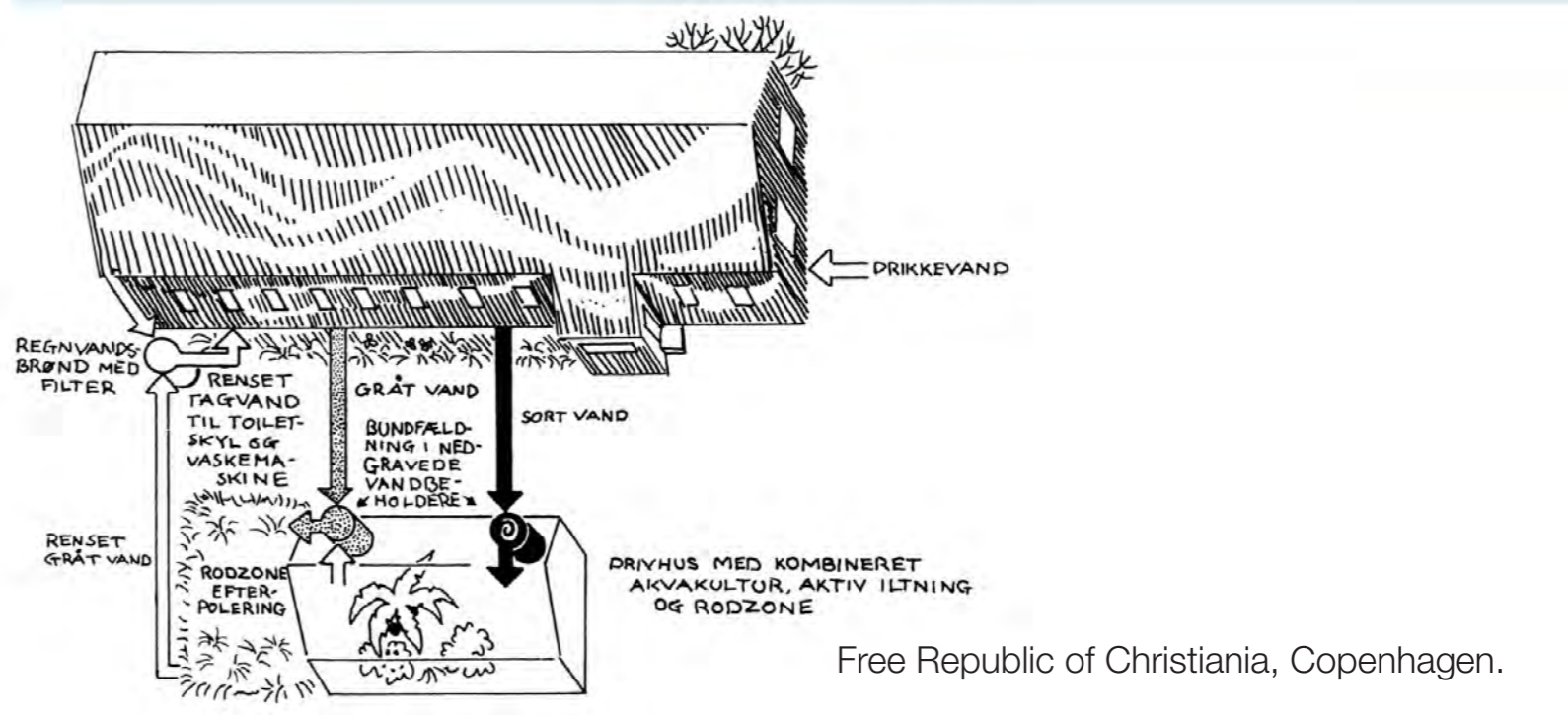
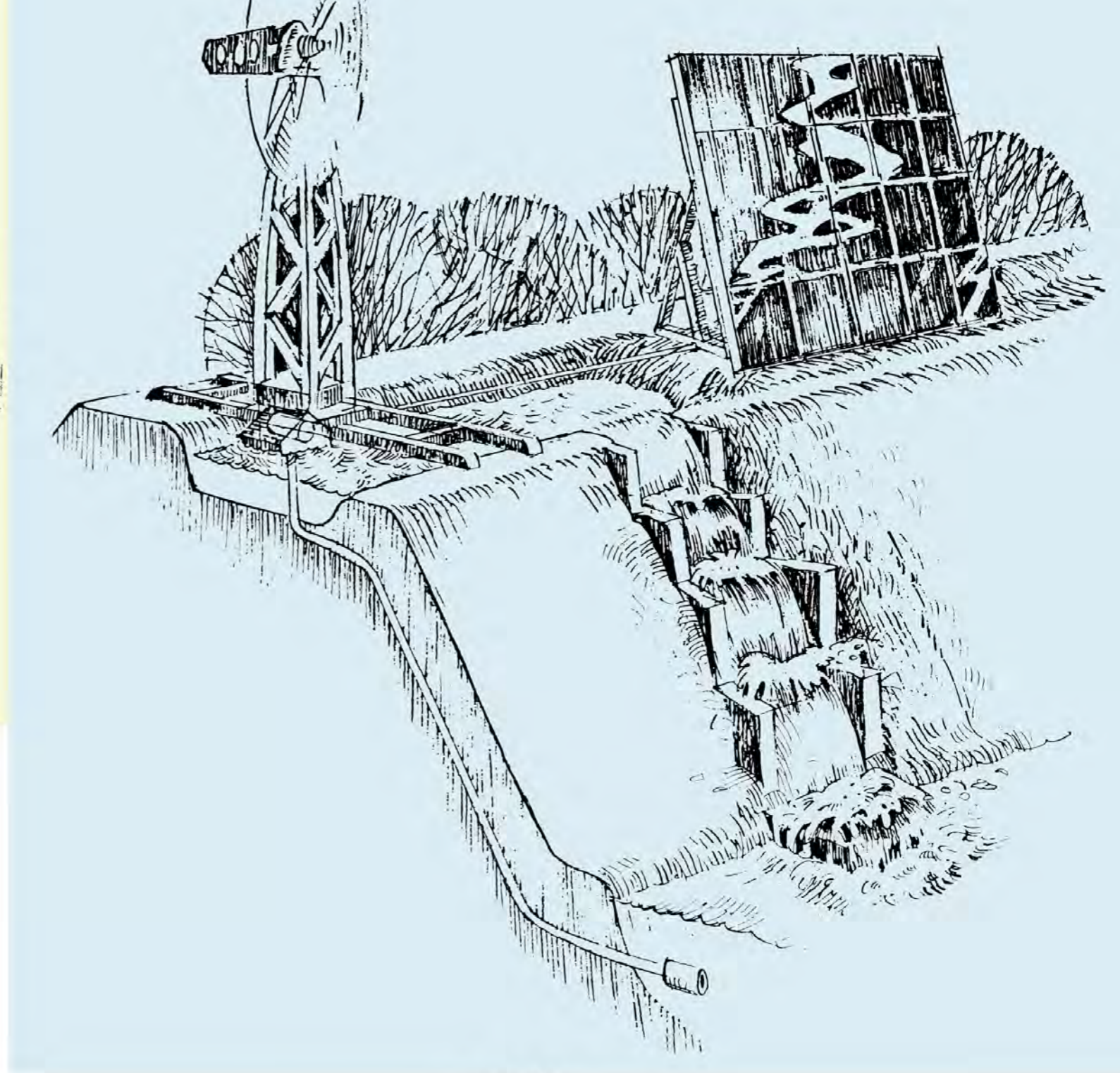
Free Republic of Christiania, Copenhagen.



Free Republic of Christiania, Copenhagen.



Free Republic of Christiania, Copenhagen.







Athens, Navarinou Park.



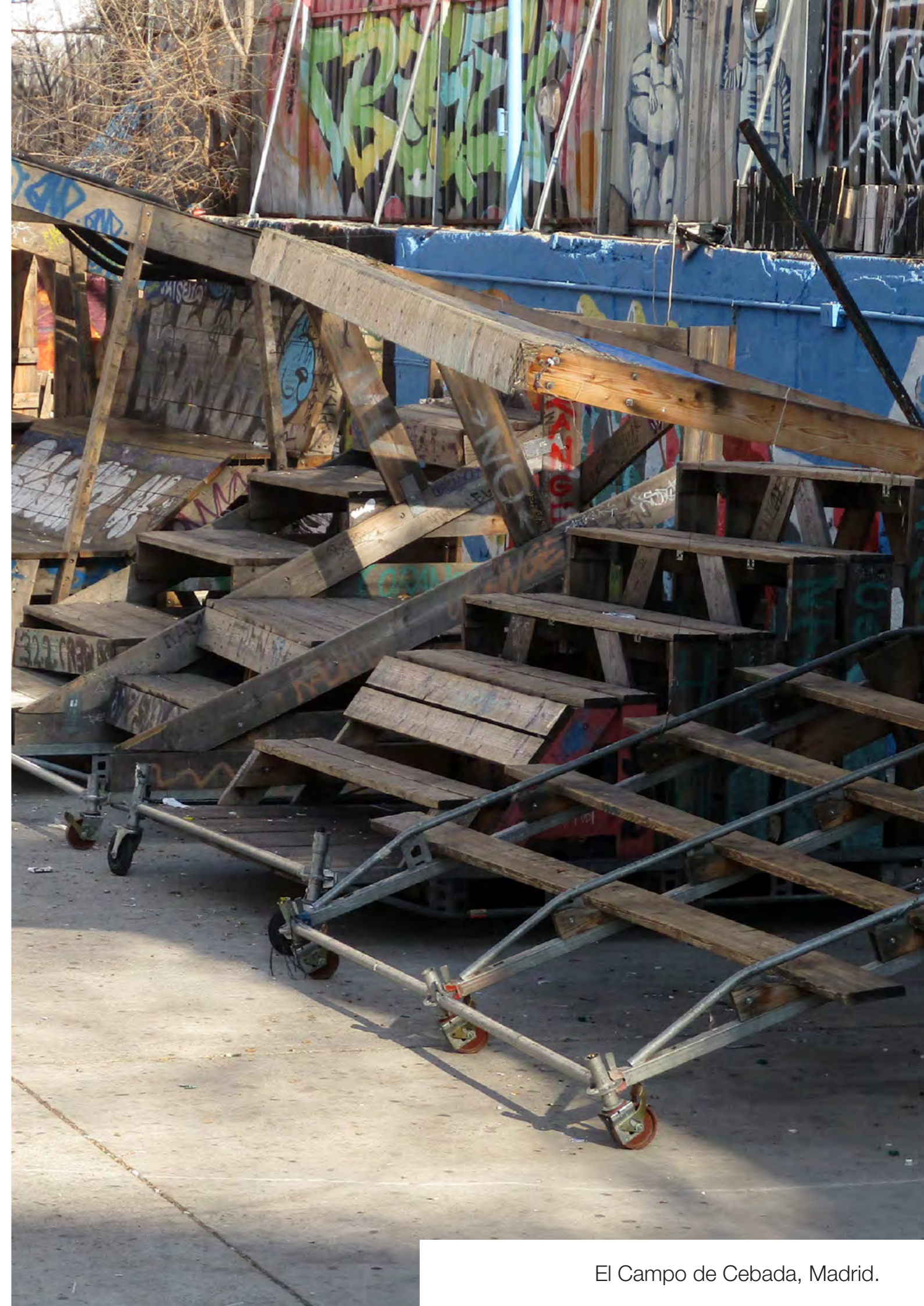
Mercado de la Cebada

FESTIVAL CAMPO DE CEBADA DEL 3 AL 7 DE JULIO
CAMPANA DE FINANCIACION POPULAR DESDE 5€! ¿NOS AYUDAS? VERKAMI.COM

VITAS
EIN!
CAMP

SAEK
KISSES
SUPER

El Campo de Cebada, Madrid.



El Campo de Cebada, Madrid.



El Campo de Cebada, Madrid.

→ Principle of urbe

Increase the probabilities of relationship
between the elements

to reduce energy consumption,
resource consumption,
production of waste,

to lead to conviviality and (bio)diversity,
to self-organization and self-sufficiency,
to pleasure and happiness.

“Urbe”:

Principle of urbe

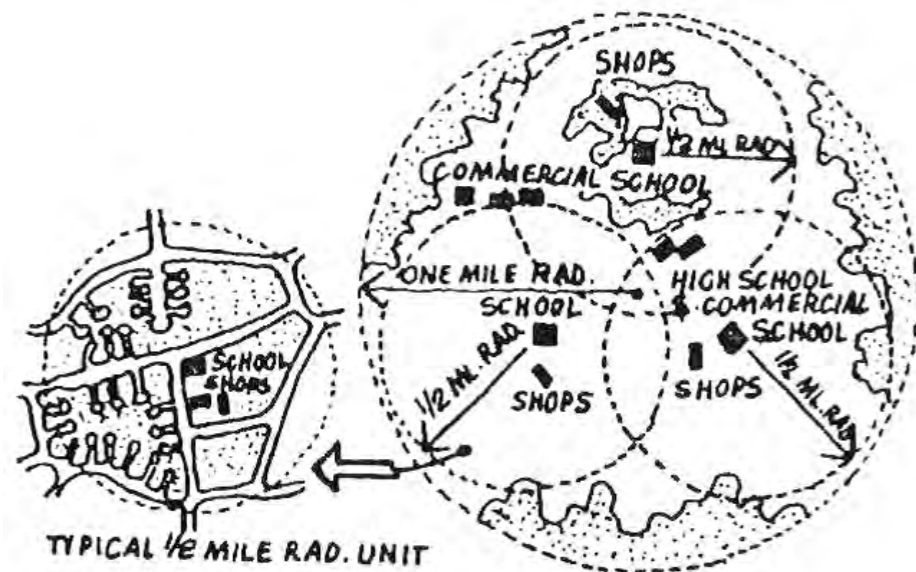
Sustainability, rule of « 10 minutes on foot »

Within a maximum radius of 10 minutes on foot,
everyone has everything that is needed
for their daily life around their home:

workplace, school, everyday shops,
places of relaxation and leisure (culture, nature, sport),
places for public debate and administration.

Principle of urbe

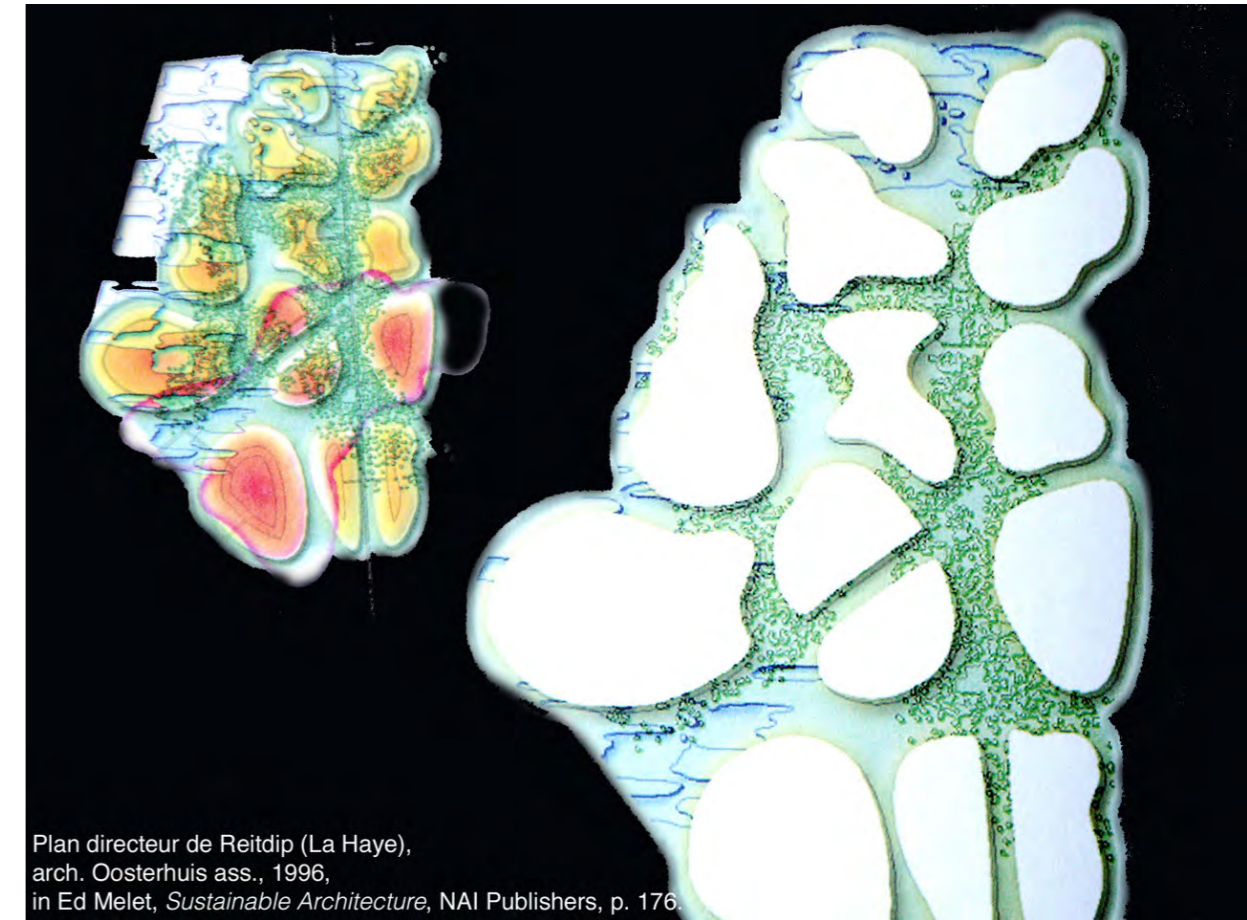
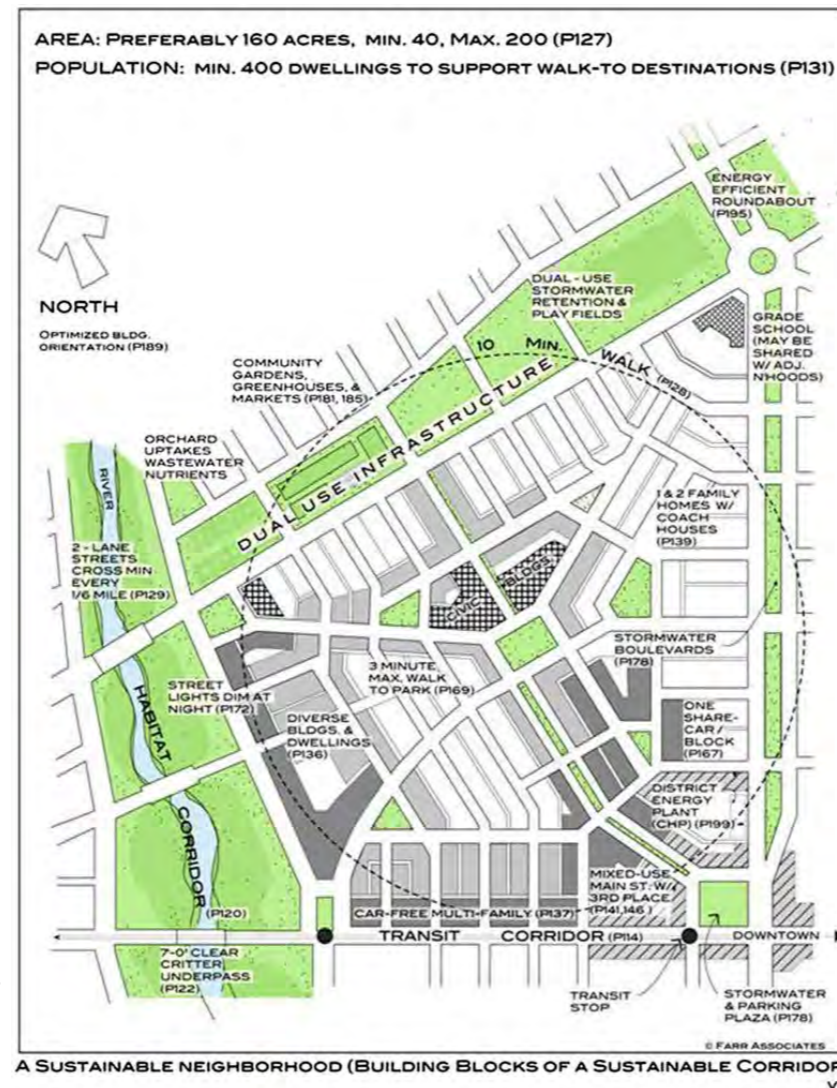
« Urban villages » in a bio-region or nature corridors in the city



TYPICAL 1/2 MILE RAD. UNIT
CONCEPT OF A "NEIGHBORHOOD UNIT" IN THE 1920'S - 1930'S

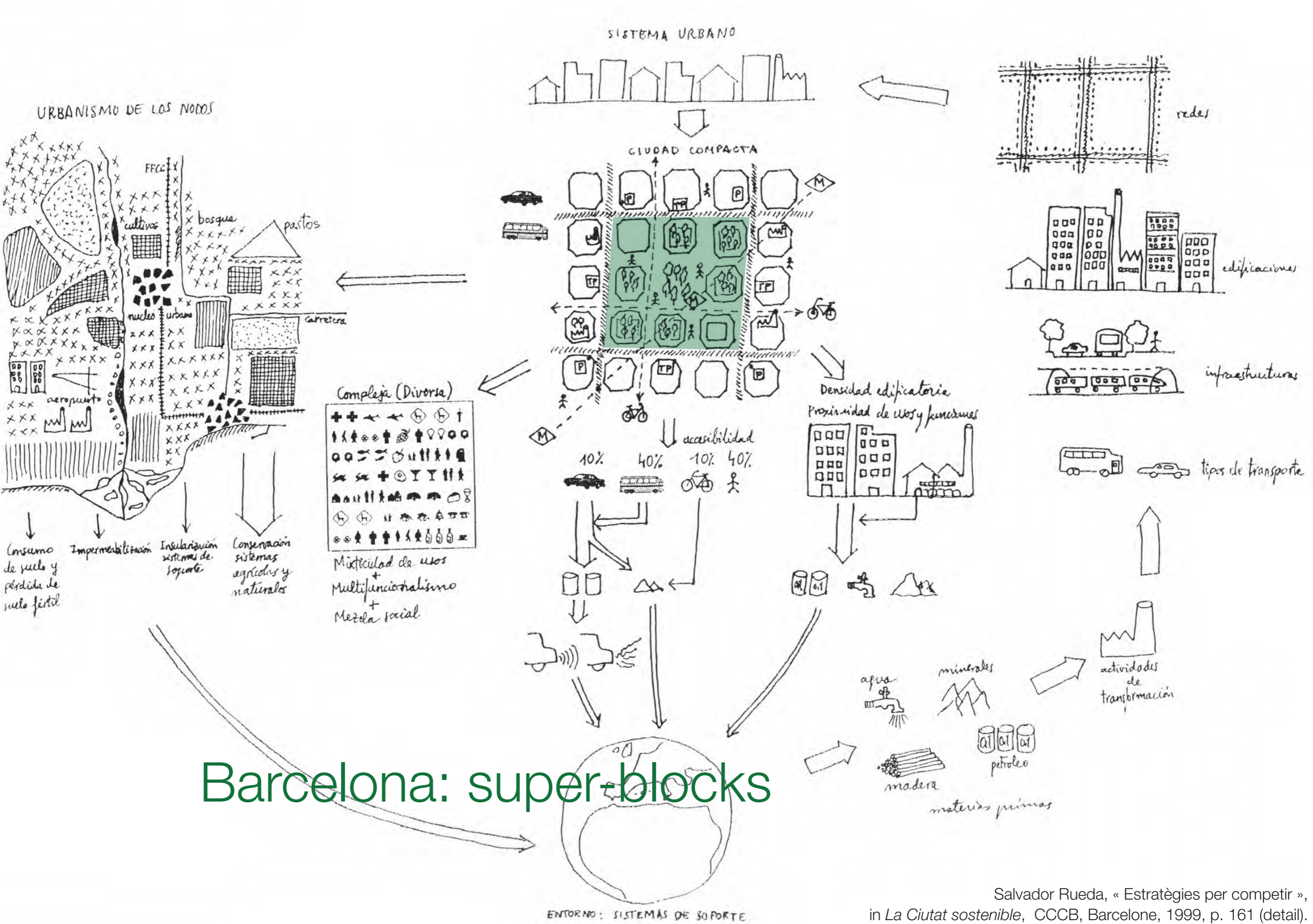
Clarence Perry, beg. 19th century.

Douglas Farr, *Sustainable Urbanism - Urban Design With Nature*, 2007.



Plan directeur de Reitdip (La Haye), arch. Oosterhuis ass., 1996, in Ed Melet, *Sustainable Architecture*, NAI Publishers, p. 176.

Alberto Magnaghi and the Territorialist School, *Il progetto locale ("The Local Project")*.



Barcelona: super-blocks

Principle of urbe

Fragmentation
of the anthropized territory
into small, autonomous and
related entities

**Territory
common good**

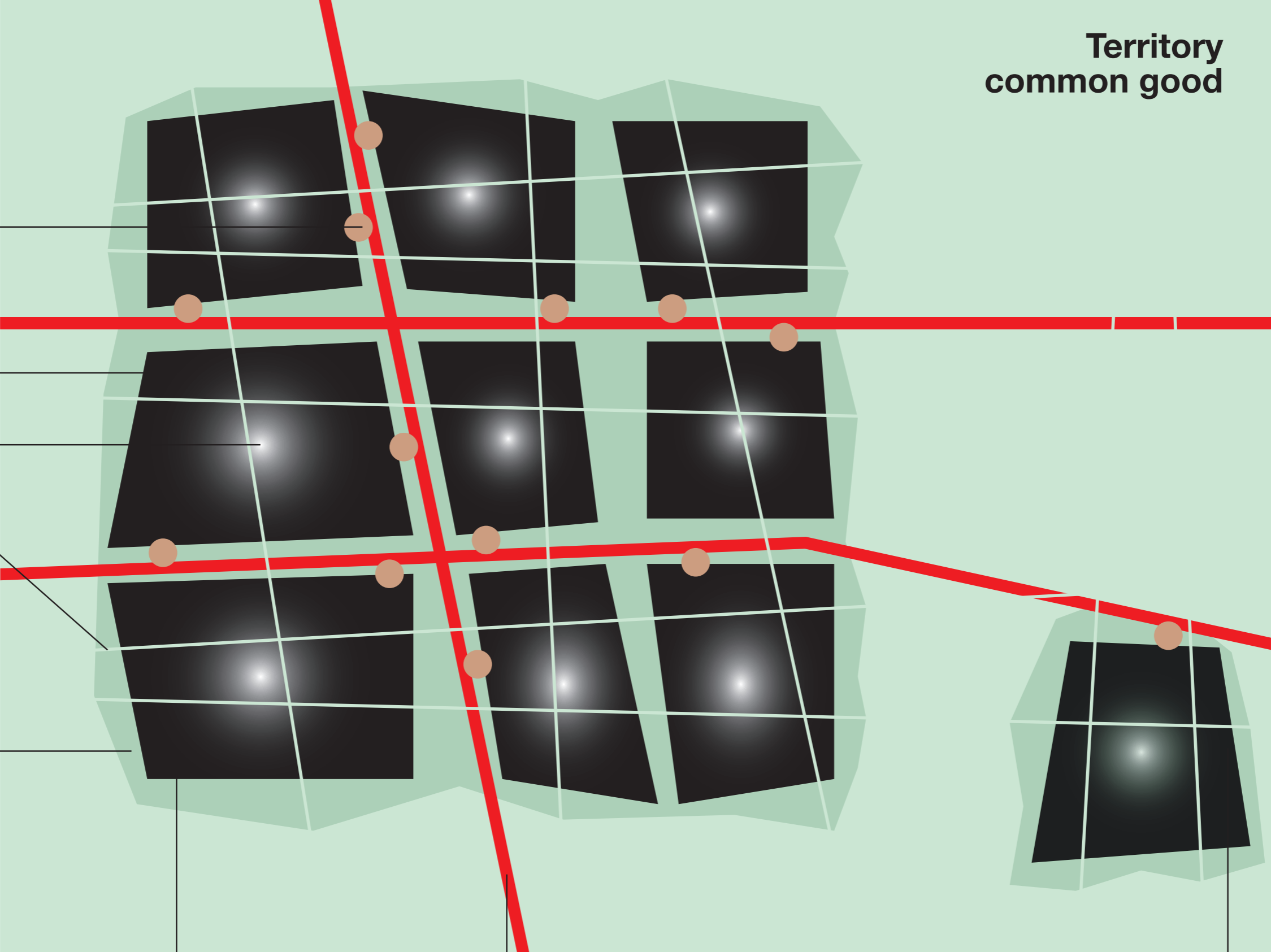
Gate

Pacified
circulation

Centrality

Network
with territory

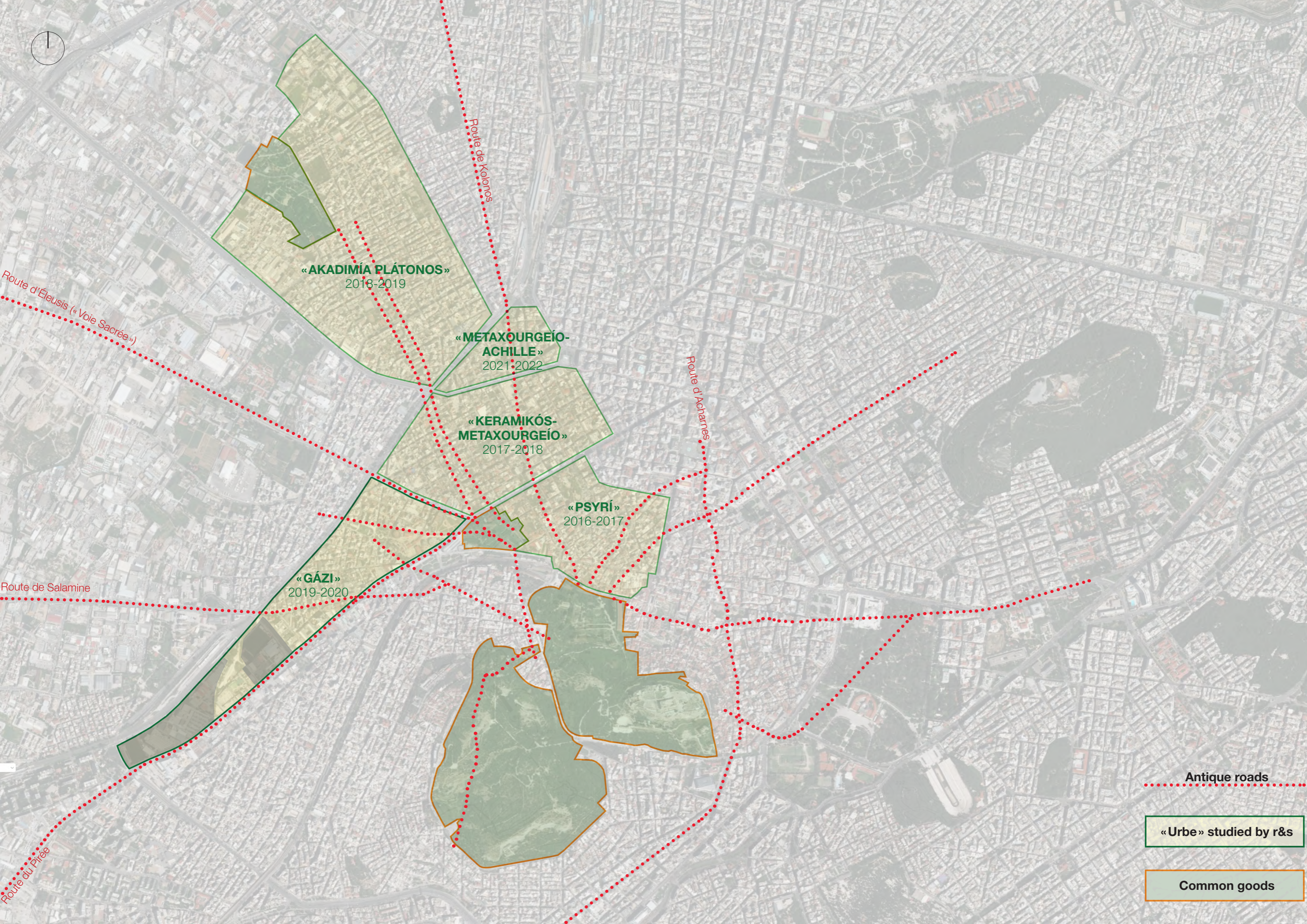
Edge



Territorial circulation

Urban urbe
(by fragmentation)

Rural urbe
(by bio-regional federation)



«AKADIMÍA PLÁTONOS»
2018-2019

«METAXOURGEÍO-
ACHILLE»
2021-2022

«KERAMIKÓS-
METAXOURGEÍO»
2017-2018

«PSYRÍ»
2016-2017

«GÁZI»
2019-2020

Route de Kolonos

Route d'Acharnes

Route d'Eleusis («Voie Sacrée»)

Route de Salamine

Route du Pirée

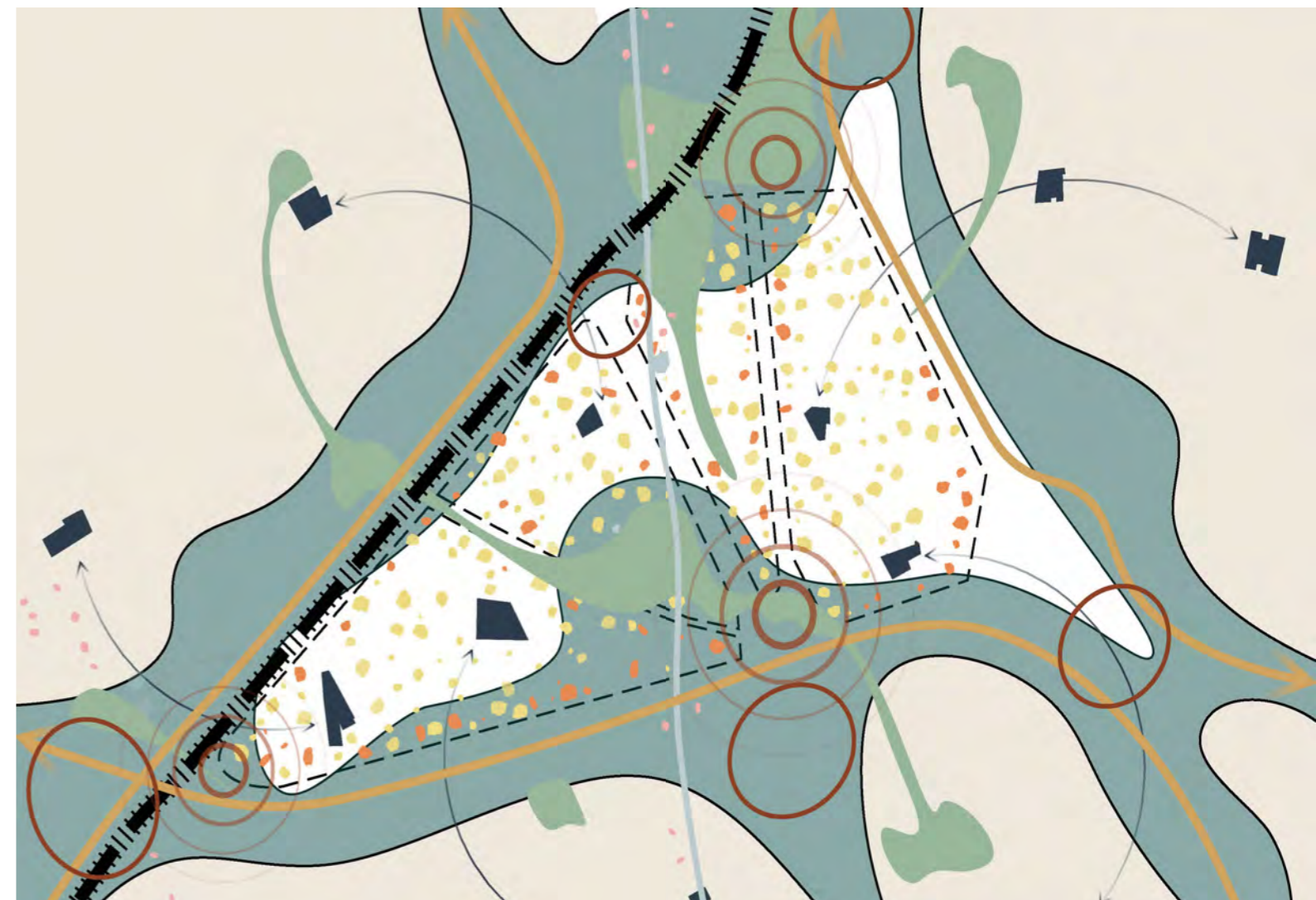
Antique roads

«Urbe» studied by r&s

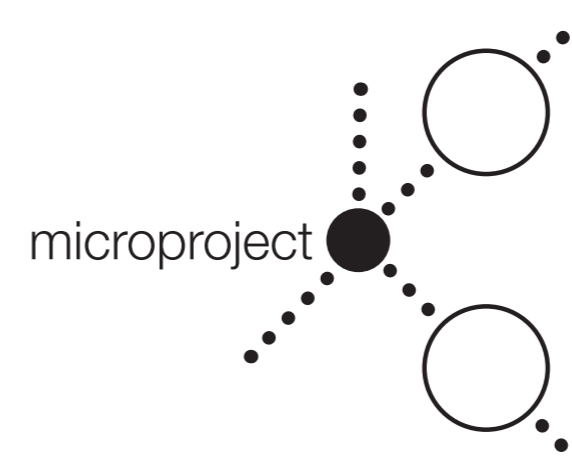
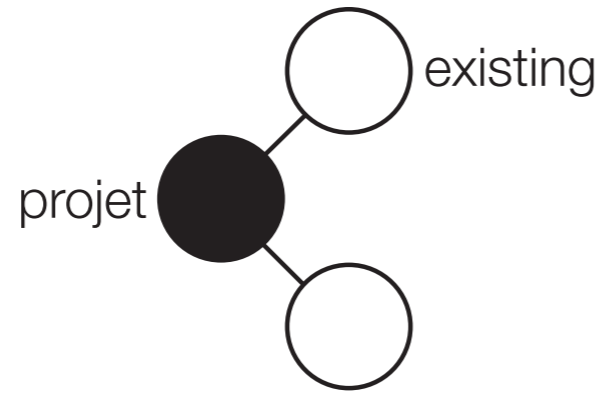
Common goods



Radical scheme of the neighbourhood.



The Urbe model of Metaxourgeio-Achille.



Metamorphosis of a neighbourhood into an urbe

Microproject

Achieved < > To do, open future, impact scenarios

Hard, to persist < > Soft, ephemeral, for a life that lasts

Yes/no duality, certitude < > Doubt, appropriation

Master plan < > Model of the urbe

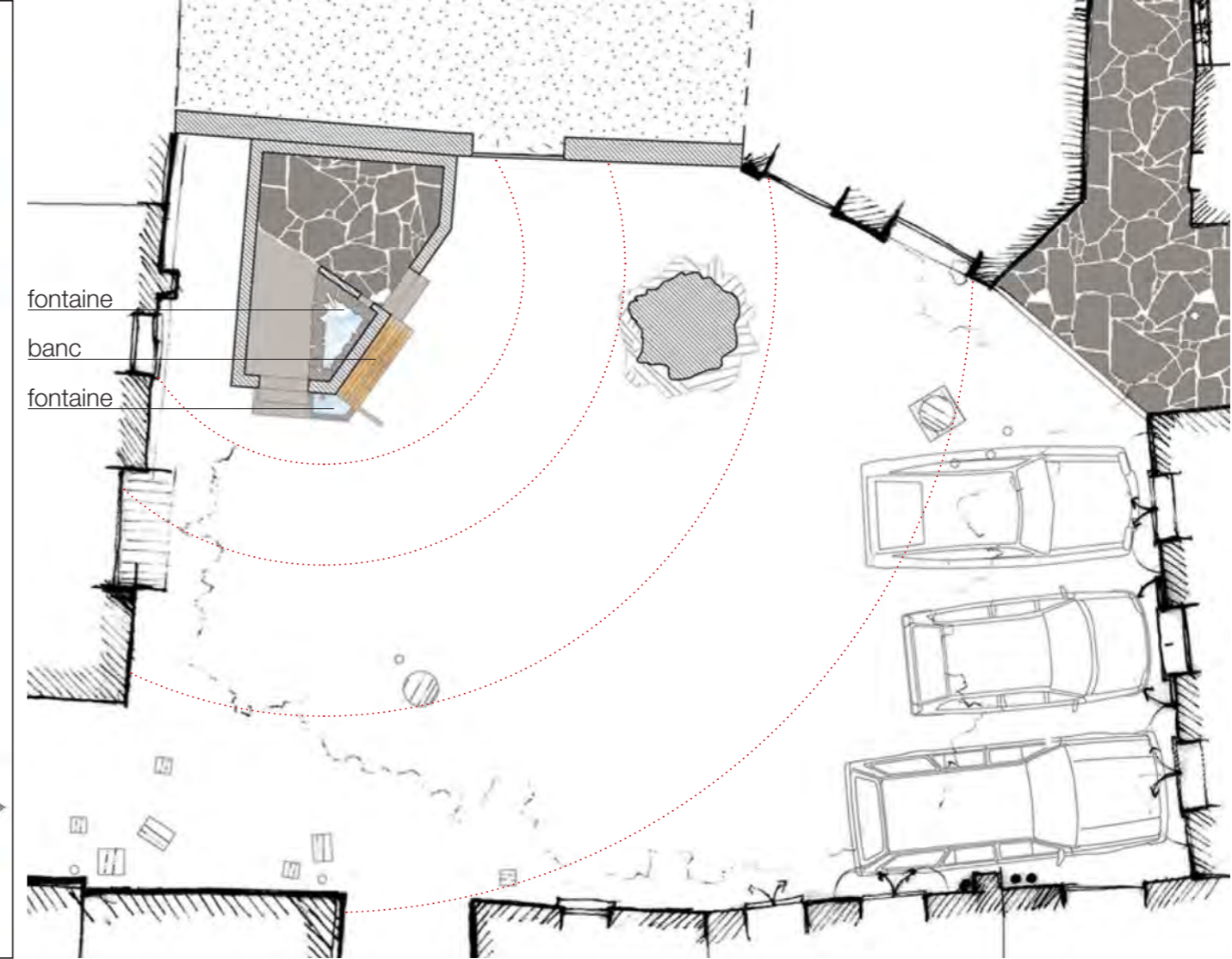
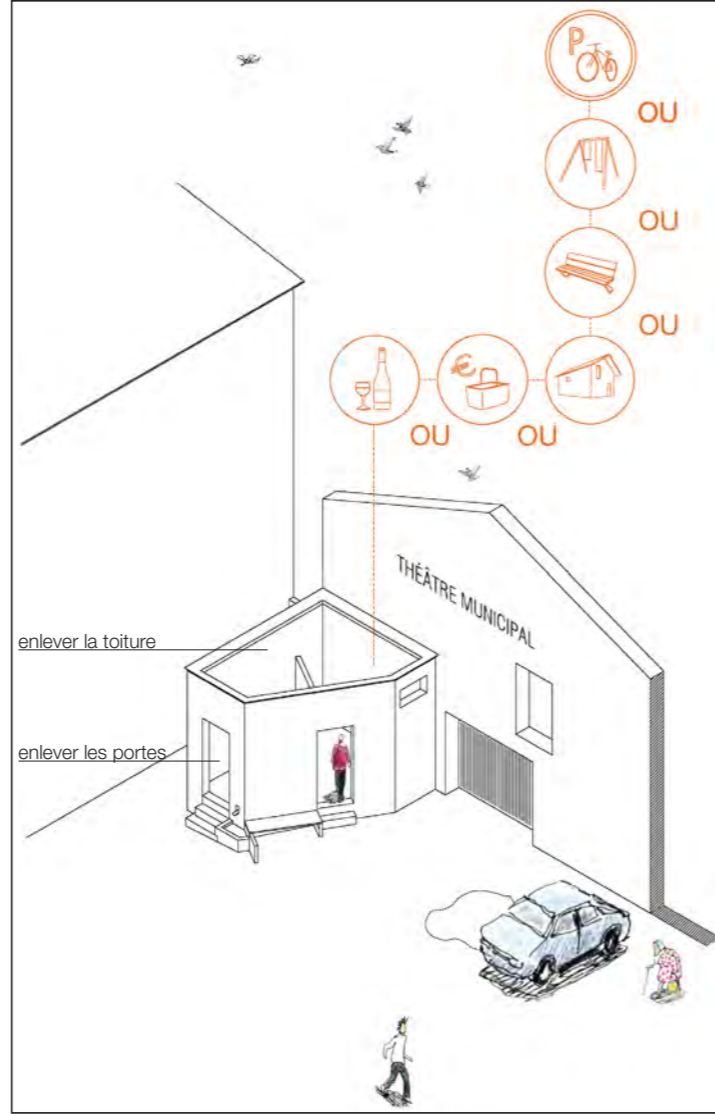
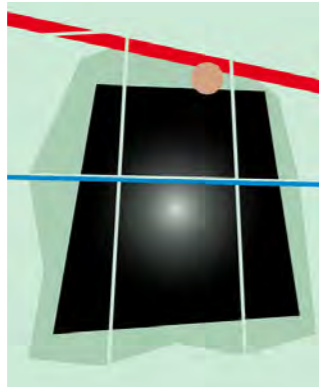
Hierarchical organization, high subsidiarity < > Low subsidiarity, self-organization

Fonctionnalism < > Diversity of uses and functions, of inhabitants

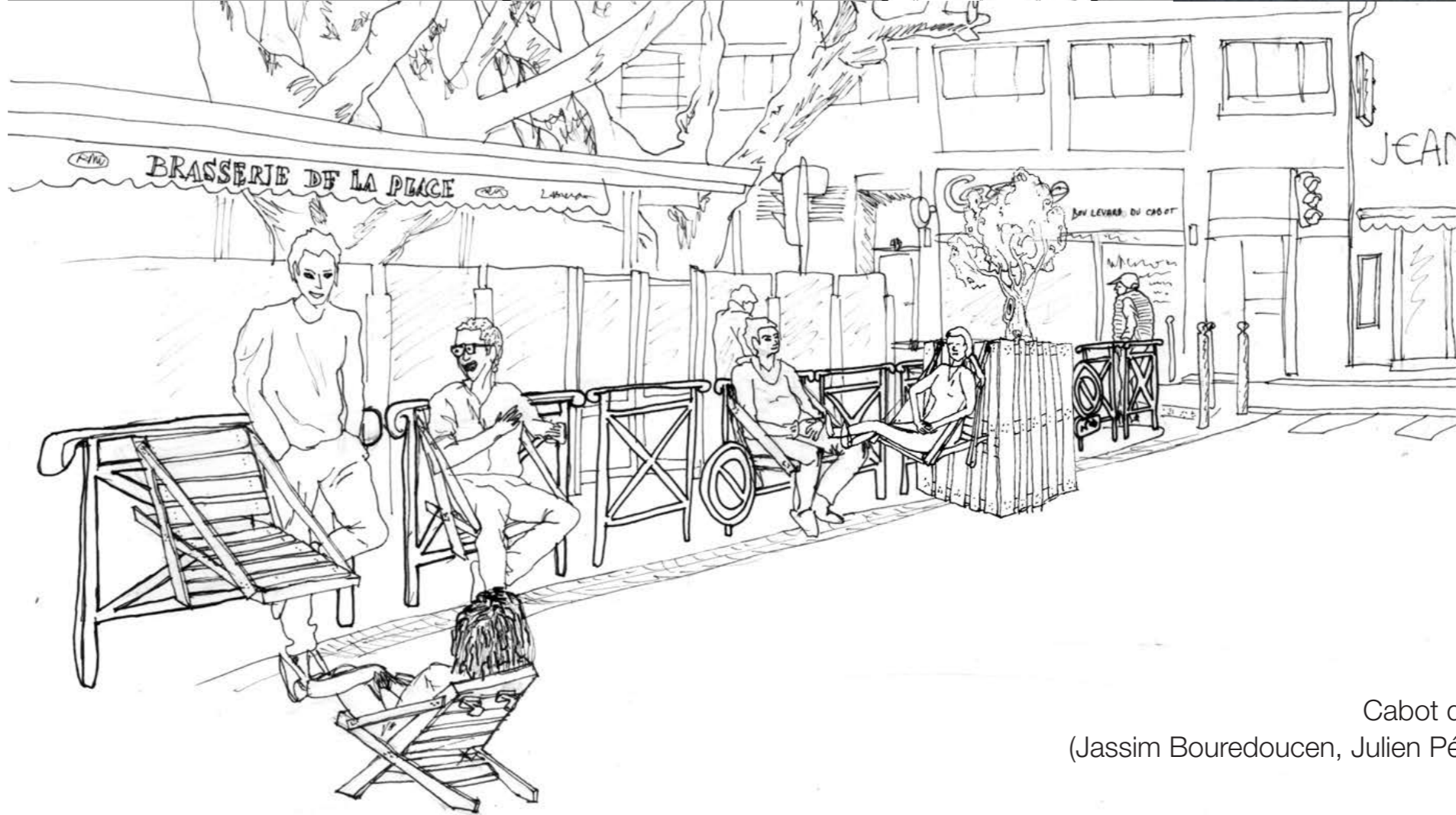
Restructuring < > Adaptation, resilience

Individual « Consumption », industry < > Self-production, living together, crafts

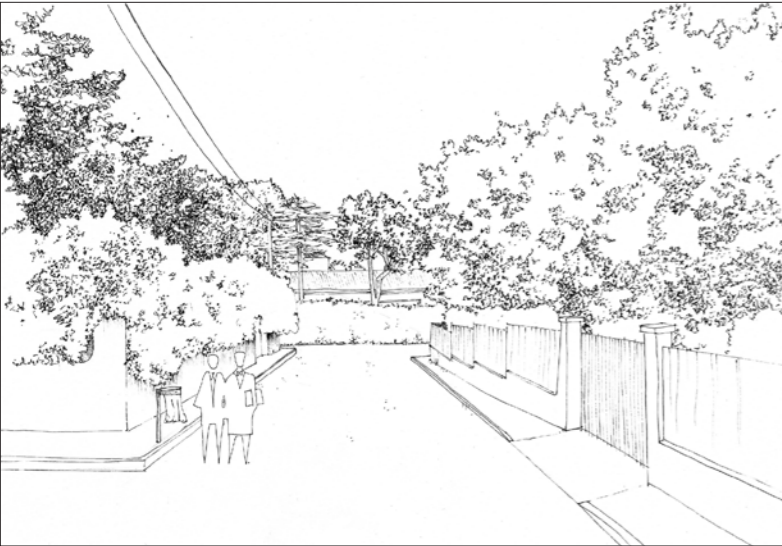
Pacified
circulation,
low level
of subsidiarity.



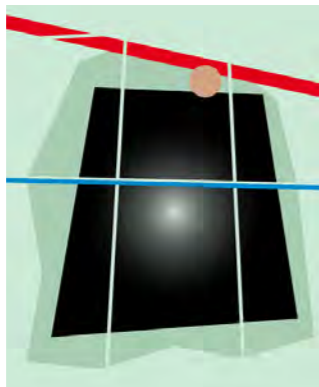
Place des Greniers in Barjols, Var
(Manon Bublout
et Antoine Hallé, r&s 2011).



Cabot district square in Marseille
(Jassim Bouredoucen, Julien Pélisser, Charles Simonnet,
r&s 2015).



Centrality,
living together,
food self-
sufficiency.



Fragmented road, Cabot district, Marseille
(Jérémy Lasne, Océane Rebour, r&s 2015).



Machine for cleaning the sea,
Marseille, 2022.



Thank you.